GIRLS TO

Dr. James E. Lough, professor of psychology of New York University

HAT letter sent to THE SUN not demolish the opposing hosts of legend. long ago by a lad who had superstition, tradition and theory." studied many things in the According to Dr. Ayres there is reapublic schools but had not son for encouragement in the situation learned how to earn a living described a even though the task for the educator situation which many boys discover after being graduated. It is to eliminate this situation that advocates of vocapublic schools. Dr. Leonard P. Ayres, director of the division of education of the Russell Sage Foundation, puts the case like this:

"Could you pass a seventh grade arithmetic examination? Would your doctor, your minister, your lawyer, get as high marks as their own 18says that these fathers would not, and he reaches this conclusion after making many experiments. "In too many schools the lessons taught have little bearing upon the problems of everyday life. We spend hours in teaching says that these fathers would not, and

the business of turning children into useful citizens. In every branch of industry within the the past few years there has come a wave of inquiry, an analysis of processes, a measurement of results. We call it 'scientific mangement,' and in common with other usiness men educators are applying these principles to their work. The children who enter our public schools are the raw material; those who complete That a the course and graduate are the finished oduct. Educators are beginning to mand how much of this raw material

wasted in the process.
"What proportion of the children mplete the common school course? Bix years ago no one in the country could answer that question. Now studies are being made, tests applied, and today we know that in the country as whole not one-half of the children who enter the public schools remain to graduate. Conditions in the higher schools are even more shocking.

What should we say of a four act play in the theatre, where 1,000 people were present at the beginning of the first act; 500 got up and left at the beginning of the second act: 250 of these scent of the curtain? Yet these figures ing out of pupils in the four years of doned by the Ministers, who resigned forthwith.

All attempts at a scritton who resigned forthwith.

ions of intelligent artisans, had remained almose unaltered since the days of primitive man. Finally, Taylor, with his scientific management, stepped in and asked: 'Why lower a hundred pounds of human flesh to pick up each two pound brick? Why toss the brick times to find its best face? Why three times to get its prover level? Why stand in a position that requires half a dozen movements when one will suffice?'

"Then science enswered: Build a platform for the bricks adjusted to the height of the work; lay the bricks on the platform with the best face out; mix the mortar so that one tap will suffice. and take such a position that five movements accomplish the same results that formerly required eighteen.' To-day, under the teachings of scientific managament, each workman lavs each hour s many bricks as he formerly laid in

ave human beings as our raw mabooks, words and actions as our It is a task of staggering diffi-Yet educators realise that only lying the scientific method to n education become a

## Advocates of Vocational Guidance Are Trying to Have New Education Adopted in Public Schools---Two Different Theories of Best Way of Fitting Children

sons able to handle almost any job. gineers, five laundresses, six teachers, ously been classified.

But there is no greater weakness in seven painters, eight bookkeepers, modern society than the lack of some eight machinists, eight dressmakers, ful occupations mentioned by Dr. Ayres right job together.

"You take the first job you can get, and the job takes you if you get there first. Later you leave because you don't like it or because you can't do it, and the job takes the next man who comes along. You are in the eternal shuffle of men and jobs without either side getting a fair deal. How are you going to find the right job? You can find out whether you are fitted for your Job by psychological tests."

Tests of this sort have been made in examining applicants for the jobs of motormen on trolley lines, railroad employees of different grades, examiners of steel balls for ball bearings, a work requiring the greatest nicety; operators for telephone switchboards, and students in typewriting and stenography. these experiments the aim has been called into action. Dr. Ayres thinks to eliminate the possibly unfit at an this can best be done by first measuring

At the outside, these efforts have only

the round peg into the round hole, for ployer. people and places are both plastic and Unfortunately as the conditions are people and places are both plastic and unfortunately as the conditions are which nature has especially qualified to suit each to-day not enough is known about the him.

"Take the boy that shows an especial"

is apparently a hard one. As he puts

twelve carpenters, fifteen salesmen, fif-

This gives a total of 217 persons definitely assured of employment. Assuming children and the aged to number 100, then industrial work of some sort must be found for the \$88 remaining. Even assuming that the odd 88 are mothers or home keepers, there are still 800 to be employed at some regular work if the community is to thrive as a whole.

These figures probably understate rather than overstate the seriousness of the situation. Vocational guidance is needed in order to steer all of these theoretically unassigned into lines of endeavor where the best in them can be early stage, the main purpose being to the capabilities of the individual and find persons fit for particular occu- then finding among the nearly 10,000 prehensive classification of occupations the particular one calling for the qualities manifested.

taken up twenty-one lines of endeavor Dr. James E. Lough, professor of ject of study, for after all that worker "It is not a question of fitting the is most successful who comes nearest square peg into the square hole and to satisfying the demands of his em-

one. In every city throughout the in the first place and then candidates remote to the casual critic.

"There are jobs fitted to the ability | three barbers, three tailors, four printers, | indeed means finding the round peg for of almost every person. There are per- four masons, four blacksmiths, five en- the round hole, the hole having previ-

EARN A

plan for bringing the right man and the eleven railroadmen, eleven teamsters, as little more than a list of names which bewilders rather than helps. In teen storekeepers, sixteen clerks, twen-ty-eight servants and forty-one labor-sents the facts, because it conveys the idea that vocational guidance must take into consideration all of these from the very beginning before it can lead the tudent into his direction of best endeavor.

"Let me make this clear to you," says Dr. Lough. "The carpenter, the cabinet maker and the model maker are all wood workers, and each one of them rests his skill upon a training which is substantially identical. Each has certain tools to use in common, each to know the characteristics of the different woods upon which he works and each must be able to do with approximate skill many allied things. Therefore, instead of looking at these three occupations as essentially distinct we must realize that they really start from a single point, and, therefore, they can be broadly grouped under the one com-

"What we should really have to do in the foregoing cases is to find out out of something like 10,000 gainful psychology at New York University, is what are the first qualifications essentoccupations as listed in the United equally earnest in his belief that sometial in the woodworker. Then pick States census. Beneficial results have thing radical must be done in the direction that shows a leaning that been secured in this fashion, but Dr. tion of vocational guidance, but he is way. If practice show that he have Ayres does not believe this to be the diametrically opposed to Dr. Ayres as more than ordinary definess he takes right way to attack the question; in to the manner in which the problem up carpentry in its nicer phases and in words, he thinks vocational should be approached. That is to say, this sub-group he is closely allied to the guidance up to date has started at the Dr. Lough thinks the requirements of first stages of cabinet making or furnwrong end of the problem. As he ex- each calling should be the primary ob- ture making as distinctive occupations. He may a little later choose one or the other of these, perhaps err in his selection, but the two are so nearly related that there is really no loss because he can turn easily to the other work for

seem then that the immediate need is business house, a bank or some indusseem then that the immediate need is that for selecting a person for a place rather than a place for a person."

The division of education of the Russell Sage Foundation is a sort of clearing house for undigested data which, when properly studied, reveal many significant facts. From this information Dr. Ayres finds "that although the standard by which he is to be that for selecting a person for a place trial enterprise, only to be dropped after a while with no further explanation in the school sand in making his verbal pictures. He has the teacher instinct, but not necessarily that of the educator in the school sense of the word. He may make a splendid of literature, and in literature I put the finished contributor to the press in a high place. He may be a lecturer or a preacher, smaller number, and thus facilitates the boy or the girl, as the case may be, and there are more than 9,000 different ways the standard by which he is to be He may be a lecturer or a preacher, in which Americans gain their liveli- judged? According to Dr. Lough no but withal a teacher, and his ultimate hoods, occupations that can be truly real headway can be made unless the fitness has evolved from a common termed 'constant' number only twenty- duties for each vocation are understood groundwork which offhand may seem



the primary total to an indefinitely has told you, means starting with the smaller number, and thus facilitates the boy or the girl, as the case may be, and placing of the youth's steps in the fitting each for the problems of every right path. Dr. Ayres would analyze day life. Don't teach them rules that the requirements of an educational climax: I believe in studying first the may never use, but lead them from the United States for each 1,000 people you are picked for these places after they will find on an average three plumbers, have shown their especial fitness. This tions, this method of grouping reduces "Vocational guidance as it is undercome. If you are going to begin thus early to steer the child must you not then know what are the basic requirewhat might properly youthful needs of the craft.

"How soon do I think we can assort vocationally the youthful student? Approximately between 10 and 12 years: individuals will naturally differ sharpness with which their inherer bents are defined and accordingly to some extent the age at which th do this.

"In our manual training think this has not always been fully realized, and a good many mistakes have been made that might have been avoided had it not been the common practice to specialize too soon. In fact

whiter days caused you to leave your quiet homes. It is the demand for a firm foundation for the future of the country which at this moment joins your glorious provincial banners under the royal Swedish flag which waves here above us all. You have before me expressed your resolute wish to see the most vital question of the country and the people definitely solved as quickly as possible, and you have declared yourselves feady and willing to assume the burdens and bring the sacrifices in connection therewith.

"Nothing can for a King be more valuable than to receive from the lips of the people themselves the testimony of their wish and eagerness to give him their loyal support in the discharge of his often to guite the surface of the country deal."

The Almirhte of the gent in the discharge of his often to the past these both of them to know how to use certain tools in common, and to use certain tools in common in the touse that this means an extended time of service for the conscripts.

"For the solution of her great tasks my hard the same sary understanding that each needs of machinery up to a point by studying the same mechanisms. And yet in the aking the same mechanisms. And yet in the same mechanisms to use certain tools in common, and to use certain tools in common, and to use certain tools in common in the touse will know that this means an extended time of service for the conscripts.

"For the solution of the gene duplication of the same part tasks my hard the same same mecha

primary requirements. "We are all striving toward the ultimate goal of efficiency; that is, intel gent and well directed energy, and this is the way that to me at least seems the shortest cut to success. In this manner we can soonest group the ele mental demands of every occupation. and with this knowledge in our possession then we are better able to battle with the rest of the problems of voca-

tional guidance understandingly. Dr. Lough has done some very sug gestive work in the matter of a halveing the fitness of students in typewriting and stenography and certain pupils in New York high schools. Habit forma tion constitutes the groundwork of his investigations.

Each person is given a she ing twenty letters of the alphabet, ar-

ranged without order, ten lines of these and no two lines the same. Above this is what Dr. Lough calls the key, which consists of these twenty letters at ranged horizontally, each with its "equivalent letter" beneath. These are lisposed quite at random, and must be nemorized roughly by a superficial 'ance, and then begins the testing. As each letter is called from the neet the person examined must place neath it the proper equivalent f the key, and the time required f ich line is set down. There should a shortening of the period as the amination progresses, and from the sults a diagram of efficiency in his rmation is plotted. This testing a exfor about twenty days, and from a ginning record of an average of cut down to eleven or twe ve lo nd of the investigation. From urve of habit, or curve of learning ough determines the capability of

While habit forming is a proits index of the students' ability to a writing, still it is not quite so sive when it comes to learning sten phy or taking up the study of a guage or mathematics, where and is phase of the mind is called into play Up to a point the habit forming index serves a purpose, but after that juigment and mental processes of a higher grade must carry on the task,

ndividual.

Just the same, in a couple of weeks, by this method, Dr. Lough can tell whether or not a person is fitted to take up typewriting and stenography. If not, the pupil can be saved from further waste of time and guided into other fields of useful preparation. The whole alm is to effect economy in effort in the first place and then to direct further endeavor and the best in one toward entaining the hallmark of efficiency.

# this situation that advocates of vocation that advocate the vocation that advocates of vocation that a sian bear was waiting for the propitious moment to dash into Sweden, marched into Stockholm to explain where they stood in the matter: "Ruler and King! "When the flery cross from the peasure with a standard bearing our motio and ants of Upland went forth over all the same to distress the peasantry of Sweden has been the rock on which the King could safely rely. And I feel to fail you. You may feel assured that I also have a place in your hearts. "Patriotic women have to-day presented us with a standard bearing our motio and we herewith beg to give the same to our letween King and people holds and, with you have a place in your hearts. "Patriotic women have to-day presented us with a standard bearing our motio and we herewith beg to give the same to our letween King and people holds and, with you have a place in your hearts." "Patriotic women have to-day presented us with a standard bearing our motio and we herewith beg to give the same to our letween King and people holds and, with you have a place in your hearts." "On the father and King! of the propicious of the same time easier to accomplish, and I promise not the King could safely rely. And I feel hat I also have a place in your hearts." I will never compromise with my conviction of what I consider right and use-letween King and people holds and, with your hearts.

STOCKHOLM, Feb. 18.—18 King Gustav of Sweden following in the footsteps of his father, the late King Oscar, whose unrelenting opposition to the demands of

the Norwegian people almost a decade ago cost him the crown of Norway?

This is the question on the lips of students of political conditions here who year-old boys?" Dr. Ayres very plainly can look beyond the immediate issues of

schools the lessons taught have little bearing upon the problems of everyday life. We spend hours in teaching children rules they will never apply, terms they will never use and words they will never spell.

"The schools of this country are part of a great business—a business carband on in every city and every town—it and so in every city and every town—it is a country and could not be were lacking partiotism and could not be seen in a country and could not be were lacking partiotism and could not be

### King Astounds Ministers.

The break between the King and the Cabinet became an impassable gulf when the monarch's words were reported. That a constitutional monarch should thus enter directly into a political matte and become the active leader of the fight dections of 1911 on the very issue now before the nation caused consternation The Cabinet Ministers plainly told the King what they thought of his action. He defended it in these words in his adfessors and students:

"It is my constitutional right as Sweden's King frankly to declare my opinion on what is beneficial and naces-sary for my people. I fully confide in hem and their willingness to make sacrifices for the country's needs. Rally around ne for the welfare of the country. Go 'orward with me to the goal of a strong and free Sweden.".

When the Ministers requested the King refused to sit through the third, and only 125 remained to see the final decont of the curtain? Yet these figures

cont of the curtain? Yet these figures

control of the second act; 250 of these forms to make public statements on po

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It is recalled that in May, 1905, when how Taylor, with his perpetual, 'why?' the Storthing of Norway, then forming turned the trade of bricklaying upside the trade of bricklaying upside by mill-Oscar, passed the Norwagian Government of oropesals for a separate consular service for that country and a separate Foreign Minister King Oscar vetord the bill. Ta-Minister King Oscar vetord the bill. The Norwegian Cabinet resigned, but the King refused to accept the resignation. The Cabinet tendered its resignation to the Storthing. The Norwegian Parliament promptly took the view that as King Oscar was washe to form a government. Oscar was unable to form a government his right to sit on the throne of Norway had ceased to exist and the union of the

#### two countries was dissolved. Royal Family Divided.

It is the action of King Gustav in openly taking sides in a political issue, just as his father did in the fight which caused Norway to secede, which causes people to ask if he is not embarking on a policy which may have an analagous result. Purpose of the approaching abdication of King Gustav are persistent. Moreover, there are reports that the royal over, there are reports that the royal family is divided on the issue before the country. Crown Prince Gustav Adolph is said to be opposed to the policy of increased armaments advocated by his

three hours.

"It took weeks of study to work that change. Yet bricklaving is a simple occupation. Infinitely harder, infinitely more complex, than any industr'al problem is the problem of scientific manifest in a general election without delay. If the Liberals and Socialists maintain their present majority in the Parliament—topresent majority in the Parliament—to—
sether they number 165 against 65 Conservatives—it is the general opinion that
the result of the elections will be taken
as a vote of lack of confidence in the
King and that his abdication might then
be looked for as natural conventers. be looked for as a natural consequence or that it might even lead to the establish-ment of a republic.

Here is the speech made to King Gus-av by the speeceman of the 30,000 peas-body ( the speeceman of the speeceman body ( the speeceman body

our King, for it concerned the maintenance of the freedom and the independence and ""God bless the King and the fatherof the fatherland. That the yeomen have been impressed by the seriousness of the question is evident from the fact that more than \$0,000 of us have met here and to this figure can be added 40,000 more who have by name expressed their full

agreement with us. "I am selected to serve as our spokesman. We have disregarded the party pol-tics in order to express unanimous, be-fore our King our wishes and expecta-tions that the defences of the country be-brought you here. The standard which so organized that the land which from I have received from your hands will time immemorial has been cultivated by also for me remain a beloved and valudescendants to be cultivated under the cance same freedom and independence as hith-

"Ruler and King!
"When the fiery cross from the peasants of Upland went forth over all the land of Sweden this was done in order to King as a memento of this occasion, and

The King made the following reply

"Honorable men of Sweden's peasantry "I bring you from the heart my royal thanks that from all parts or Sweden you have gone out from the struggle and pursuits of daily life to make day's appointment with me, at the castle of Stockholm, for the weal of the fatherour forefathers can be preserved for our lable memento of this day and its signifi-

"You have come to express your opinion No sacrifice was too great for our about the maintenance of the country thers when the fatherland was conforefathers when the fatherland was con-deferred and we also wish that nobody be are here and in order to make known. able to say in future times that we were with me, to all that no demand is too lacking in this respect. "Accept, your Majesty, our firm assurances that we are willing to sacrifice, for the army as well as for the navy, all that is demanded by the professional knowl
lacking in this respect.

high and no burden too heavy when it concerns the maintenance of our ancient freedom and the security of our future development. From times so distant that they are shrouded in the shadow of edge and the seriousness of the time, so that all which can and should be dene be done lmmediately, and thus we wish that the defence question be solved in its entirety this year.

"We wish it never to be heard that the peasants of Sweden would not be willing 'ro make sacrifices for the defences, and, just as in old times, King and peasants of the time, so the myth the structure of this country this country of the firm unshakable confidence between King and peasants of Sweden has in the people. You know also that this intimate cohesion alone has been powerful with the help of God to make the Sweden sacrifices for the defences, and, just as in old times, King and peasants of the time, so the myth the structure of this country that all wish and eagerness to give him their country wish and eagerness to give him their the dasperness to give him the discharge of his often the day royal duty. No King who before carried the crown of Sweden has in the same measure as I enjoyed the benefit of standing at this place face to face with the rank and file of the peasantry of sweden and hearing its voice. The cognitive forms and the firm of the structure of this country in the discharge of his often the discharge of his of his often the discharge of his often the discharge of his ofte edge and the seriousness of the time, so the myth the structure of this country that all which can and should be done be has rested on the foundation of the firm done immediately, and thus we wish that unshakable confidence between King and

### The Duty of Sweden.

"Our time is serious. Now, as before, it is all important to care for the inheritance which we received from our fathers and which was built up by their work and blood. It is our duty to administer well that which has been entrusted to us and o improve it for our good and to no one's harm. Therein lies our common duty in the present time—for the future.

"There are not lacking those in our country who have the opinion that the question of the time of service for the infantry should not now be solved, but I do not at all share this view; on the contrary, I am of the same opinion as you have already before expressed, namely, that the defence question should be treated in its entirety and decided

Backed by Army Officers.

harm. Therein lies our common duty in the present time—for the future.

"It is the feeling of this which brought you here. It is the uneasiness for the security of the fatherland which in these winter days caused you to leave your quiet homes. It is the demand for a firm officers of my army as indispensable will not be fively and the future.

The demands for preparation for service and decided now without delay and coherently. The demands for preparation for service and duplication of facilities.

"The boy carpenter and the boy machine for the future of the country of t

Shepherd gives His life for His sheep."-

Italian Church Built With New York Woman's Funds

